Class - B

3117

NOTES

MYSORE GOVERNMENT SECRETARIAT

PWD I KNPS 1

File No. 1 [illegible]

Department of PUBLIC WORKS DEPARTMENT (MAJOR IRRIGATION)

Section Mysore Government Secretariat, Vidhana Soudha, Bangalore.

Subject:

Construction of Kennakatte Project -

3122.

References :

Date	To whom sent	Notes and instructions
14-XI-57	Public works Dept.	
6-12-57	" "	
16/12	" (Rly)	

Notes pages 16
Correspondences, pages 50
~~C~~/3 Class 'B'
~~For~~/ Not for Section Note Book
To be destroyed after

~~By~~ ~~Under~~ Secretary to Government.

28/12/57.

5-6-58 Ysmith
10.6.58

Kanakanala Project.
(PWD KNPS)

Letter No 260/12/P dt 27-6-63
from the CE(M)

forwards the brief report of the Kanakanala Project for placing before the S.T.A.C. for their opinion

Submitted for perusal.

This is one of the Projects included in the II F.Y. Plan by the former Govt. of Hyderabad. There is a provision of Rs 8 lakhs in the budget estimate for 1957-58 It is for orders whether this may be forwarded to the Secy. S.P.C.

2) The CE has stated u/6 that the benefit cost ratio is 1.22 but has not mentioned the rates of Betterment Levy & water rate proposed by him. A return of 1.22 % is too low

For to further action.
6.6.63

MYSORE GOVERNMENT SECRETARIAT
NO. 4372/63
7 - JUN 1963
PUBLIC WORKS, GENERAL IRRIGATION BRANCH

5-6/57 3) U/S. PWD & Secy S.T.A.C

4) ~~Secy S.T.A.C. for perusal & report~~ for orders of this Govt

16/6. Sri. K.R. Narayana R.S.

may be included in the Agenda for the next meeting of the S.T.P.C.

17/6/57 17/6/57

5) The note of this project has been included in II Plan and it is to be discussed by S.T.P.C. hence there may be its.

19/6

20/6/57

6) This is one of the projects included in the II ~~five~~ five year plan, the estimated cost there of is Rs 16.00 lakhs and the plan provision for 57-58 is Rs 8.00 lakhs. No expenditure is available as to whether ~~whether~~ the project has been approved by the CWSPC.

7) Formerly ~~all~~ all projects costing ~~over~~ Rs 10 lakhs had to go before the S.T.P.C. But the limit has since been raised to Rs 25 lakhs. Therefore there is no need for the project to go before the S.T.P.C.

26/10/57 27/10/57

I regret the delay caused by the Secy

28/10

Why is this Kapurthala for 4 months in the Secy? Secy. action is being taken re: delay.

S. M.)

8) The Estimate may perhaps be administratively approved with a direction that such betterment levy and water rate may be fixed, so as to get a net return of 3% on Capt. share of the cost of the scheme

29/10/57

D/S plus)

664
pages

9) As regards betterment levy, under the bill which has been passed, the maximum we can levy is Rs 500/- per acre. As regards water rate also, we have already framed draft rules and these are under discussion. There will be a maximum for water rate also. It will not therefore be possible to say that the betterment contribution and water rate should be so fixed as to fetch a return of 3%. But it is seen from the project report that the investment per acre is calculated at Rs 500/-. This may be said to be reasonable having regard to the fact that investment per acre under Tunga and Bhadra Projects comes to Rs 1000/=. We may make an allowance for increase in the actual investment when the Project comes to be completed which may be taken at say 20% in which case it may be said that the investment may not exceed Rs 600/- per acre and the Govt may levy reasonable betterment contribution and also water rate. In my view the project is worth taking up. If Govt is inclined to agree we may kindly mark this to Finance for concurrence.

B V/
30.10.57

P.S. Srikantan
Dy Secy (P.W.D.)

M.I. 758.
30 OCT 1957
PUBLIC WORKS & ELEC. DEPTT.

3180

Secy (P.W.D.) to ... for concurrence

1/11

F.D.)

D. K. SRIKANTAIAH
Secy. P. W. D.

No. 3180

: in Deptt
W & S Br II

This is a planned item under the IInd Plan costing about Rs. 16 lakhs. There is a provision of Rs. 2 lakhs during the current year. We may agree to the PWD proposal.

4357/B
12-11-57

12/11
Hegde
12.11.57

4) It may be clarified whether the project requires budget provision sanction of GOI & PC

PWD) [illegible]
14/11

MYSORE GOVERNMENT SECRETARIAT
15 NOV 1957
PUBLIC WORKS BRANCH

N. S. BHARATI
Asst. Secy. Fin. Dept.

14/11
U.S.(W)

with PWD dt 14.11.57)

Pl. clarify

Sd
16/11

5) I believe CE(MIN) has said that only project costing more than Rs 50 lakhs will have to be placed before planning committee, GOI. pl put up a copy of his letter mentioning

Sd
16/11/57

3) There is every possibility of the reference being placed on Hathikoni Project. 12 MIPS which has already left the Bo. At approved a copy of the same may be called for from the CE MI(N) after the draft is put up. ~~for approval~~

CW
21/11/57
Sd
16.11.57
Sd
16.11.57
Resubmitted with a copy of letter from CE MI(N) along with its enclosure

U.O. 4715/B
Para 11 ante

14) FD may see pp 7-9 ante.

Sd
19/11/57
14
FD)

Sd
22/11/57

Kanakapura Project — Raichur Disc. 5

Mysore Government Secretariat

[App. F. III Σ

~~File No.~~ ~~of 195~~
(WR) 1 KNP 57)

Serial No.

U.O. ~~4715/B~~

15) The project may be sanctioned subject to the condition that net return should be atleast 2½ or 3%.

D.S. 28/11

16) May be approved

2/12

M. Veeraraj Urs
Deputy Secy. Finance Deptt.

F.S.
17)

6/12/57

~~F.S.~~ 18) P. W. D)

6/12

M. Veeraraj Urs
Deputy Secy. Finance Deptt.

No. 3354-A W.S.2

DEPUTY SECRETARY TO GOVT. 25 NOV 1957 5626 F.A. SENT

2805/25
4/12

SECRETARIAT TO GOVERNMENT 29.1083 9 DEC 1957 PUBLIC WORKS & ELEC. DEPTT.

WORKED 2d - 6/12/57

~~Secretariat~~.

19) This will be cabinet note. A Decn may be sent up at once

9/12

Bm 9/12/57

Dft Council note is sent up.

Bm 10/12/57 pl. put up a typed draft as modified immediately

11/12/57

For appl. to the D.C.N.

11/12/57

Note.—Contn. Sheet Flag 'A'

File No. of 195 .

Mysore Government Secretariat

Serial No.

Pls introduce one more para as an introductory para in the beginning. That should give briefly where the river or stream is, to which big river it is a tributary and for how many years the project has been under study. Urgent

Boss
11/12/57

[illegible]
14/12/57

It is stated to be a tributary to the Tungabhadra River. This is wrong at the commencement of the note. Information re: the no. of years for which the project has been under study is not found in the records available in the office.

Sd/- 12/12/57 D/S (PWD)

14/12/57

Pls re-type the draft and put up.

Boss
12/12/57

[illegible]
13/12/57

Returned with the draft. Council note typed.

Sd/- 13/12/57

For approval

B. S. Srikantaiah
13.12.57
Dy Secy (PWD)

Secy (PWD)

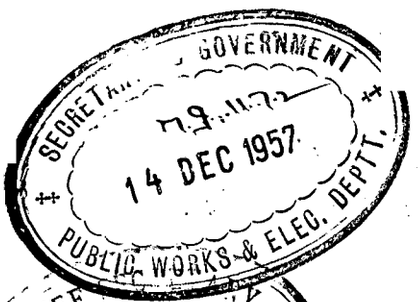
WD 01774—GPB—PZS—800.000—26-10-57

28. Min: PW

Chief Sec

14/12/57

D. K. SRINIVASACHAR
Secy. P. W. & Elec. Depts.



29. 16/12

30. 17/12

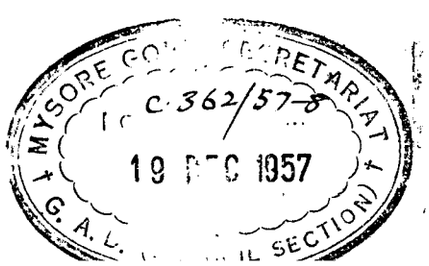
17/12

18/12/57

19.12.57

R. P. [illegible]
Under Secy., P. W. Depts.

31. Council section



32.

SECRET.

Council Case No. C. 362/57-58.

Date 23-12-57.

FOR CONSIDERATION AT
A MEETING OF THE COUNCIL

Council Note circulated for information

Dy. Secy.,
GAD.
23/12

Chief Minister,
All Ministers.

BRN.

SECRET. PWD 1 KNP 57.

33

COUNCIL NOTE.

Subject:- C.362/57-8.
Construction of a Dam across the Kanakanala Stream in Raichur District.

Kanakanala Stream is a tributary to the Tungabhadra River. It rises from the hill range of Thawargira in Kushtagi Taluk of Raichur District. It is proposed to construct an earthen Dam across the Stream, just above Malapur Village. The project is designed to irrigate an extent of about 3100 acres, and will benefit the five villages of Malapur, Bommanahalli, Ratnapur, Somkal and Gunda, in Raichur District. This is an area in which scarcity conditions manifest themselves often.

2. The total estimated cost of the Project is Rs.15.50 lakhs. This investment works out to a rate of Rs.500/- per acre to be irrigated. The return on this project is stated to be 1.22 per cent.

3. The Finance Department have remarked that the project may be sanctioned, subject to the condition that the net return should be at least 2½ or 3 percent. A new law regarding betterment contribution and water rates has been passed and the levies will be governed by the provisions of the law and of the rules thereunder. According to this law, contribution may go up to Rs.500/- per acre. Suitable betterment levy and water rates will have to be fixed, so as to get a net return of 2½ or 3 per cent. The proposal is to accord administrative approval to the project Estimate of Rs.15.50 lakh

4. This project is included in the II Five Year Plan and a provision of Rs. 2 lakhs has been made for it in the current year's Budget.

5. The project estimate is submitted to the Cabinet for approval under Rule 9 (xiii) of the Rules of Business.

(D.K.Srinivasachar),
Secretary to Government,
Public Works Department.

(.N.Rao) 23/12/57

C.362/57-8

1957-58.

Extract from the Proceedings of the....THIRTY..NINTH.....*Meeting of the Council of Ministers held at Bangalore on*.....26th..December.....*19*..57....

Subject:- C.362/57-8.

Construction of a Dam across the Kanakanala Stream in Raichur District.

DECISION OF COUNCIL.

Sanctioned.

(SD) S.NIJALINGAPPA
CHIEF MINISTER
26/12/57.

PS: A copy of action taken on the Council decision may please be sent to Council Section.

Secretary, P.W. Dept.

SECRETARIAT TO GOVERNMENT
27 DEC 1957
PUBLIC WORKS & ELEC. DEPTT.

"EXTRACT"

Deputy Chief Secretary to Government. GAD:

Two Fair copies are placed in the ... being sent to the Financial Secretary for Communication to the Accountant-General.

Financial Secretary

J Comm no. 11480.

Rs.
31/12
31/xii 57

JSRC
31/1/58

Issued
MP
31/1/58

1) Submitted for perusal with ref to C.O dr 31/12/57 (P39(1).) the CE MC(@) has now forwarded a revised estimate amounting to Rs ~~30,16,600~~ 30,16,602/- for ~~for~~ for 5 Cas against the sanctioned amount of Rs 15.50 lakhs) for Cost appl.

P-37
I-KNP-57

2) Perhaps the CE may be requested to state whether technical sanction was accorded by him for the original estimate and if so what the circumstances leading to the increase in the estimate were not

Serial No.

foreseen. Invs.

31/12/58
MCS
31/12/58

40 Please address CE. M. D.(N) and obtain the necessary clarifications. This seems to be a case similar to Lakshmanathirtha Project.

GP
2-1-59.

41) Returned with a draft for appl.

Misra
MCS
9/1/59

8/1/59

13/1

Letter No W/102/56/1462/TA. dt 10/2/59 from the CE(N) submitted for perusal.

With ref. to paras 38 to 40 ante. The CE(N) has now explained the reasons for the increase in the estimate of Rs Kamalapura Project from Rs 15.50 lakhs to Rs 30.1662 lakhs. It may be seen from the CE's report that certain technical modifications have now made, and the necessary preparation of the revised estimate on the current schedule rates for the whole work, have resulted in the increase in over the sanctioned estimate. The

Note—Contn. Sht

13

File No. of 195 . Mysore Government Secretariat

Serial No.

has called for tenders in anticipation of Govt appl. In the circumstances the revised estimate for Kamalanala Project for Rs 30, 16, 627/- is for appl. with financial Concurrence. As the revised estimate exceeds the original approved estimate by more than 10/., appl. of the Council will be necessary.

Dy. Secy)

VRN 20/2/59 Nil 20/2/59

22/2/59

Secy P.W.D. may calm his papers before the case is taken up by A.S. for Concurrence

Secy P.W.D. / Dy. Secy

M/s MP may pl examine and furnish in duplicate by 4-3-59 evening.

It is proposed to change the F.O.F. with a splitting which at an extra cost of over Rs. 11 lakhs. Why was this not considered earlier? Why were not the

WD 04559—GPB—PZS—2.00,000—1958

Serial No.

current schedule rates provided when
works was first proposed & sanctioned)

ML 633
9/3

15 The details are further examined, and the following are for perusal. 9/3

i) Administrative approval for the Est. amounting to Rs 15.50 lakhs has been given during Dec. 57, - the Est. for 15.50 lakhs has been based on the then schedule of rates of 56-57. This estimate is seen to have been very perfunctorily prepared, not going into the full technical aspects, and also omitting a number of necessary provisions.

ii) The technical approval has been given during Jany. 58, and the technical details should have been gone into at least then, but this has not been done.

iii) The present estimate for Rs 30,16,627/- has been based on the current schedule of rates, and takes into consideration the full technical aspects as well as the necessary provisions for T&P &c.,

The excess is seen to be not on account of the later schedule of rates, or on change in the basic designs. It is mainly due to the incorporation of the unprovided for items. The main reasons for the excess are :—

a) Provision for the draft channel and protective works,
b) Provision for flood gauge and river observation.
c) Change from Sunka mortar to Cement mortar.
d) L.S. provisions for Crossing for supply channel, earthwork Compaction &c

Note.—Contn. Sheet

15

File No. 1 KNP of 1957

Mysore Government
Secretariat

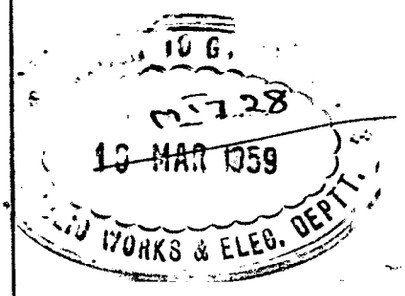
Serial No.

The list of the present
tenants would be satisfactorily
if non-etan, as the length
of the Masonry wall, which is
now proposed to be of the
High Coefficient type, the
wall be reduced, to accommodate
the same discharge, as against
the same length of 566 ft. of the
ordinary free over fall masonry
body wall, as originally
proposed, being retained.

The C.E. M. (W) will be
addressed to examine this further,
and send in his final recom-
mendations.

Secy (P.W.)

(1)
15/3/57



As the estimate is now over
Rs 10 lakhs, should it not be placed
before the S.T.A.C.? If so, action may
be taken accordingly and Chief Engr
(Irrigation) to prepare the estimate
if he considers it necessary, unless he feels
that the S.T.A.C. may consider the matter
technical questions first

17/3

P.A. address C.E.
immediately.

17/3

17/3/57

WD 04559—GPB—PZS—2.00.000—1958

Mysore Government Secretariat

File No. 11 of 195 7

[App. F. III 2

Serial No.	
	U.O.) Resubmitted with a draft for approval. Please put up a typed draft as per Corrections. 20/3/59 22.3.59
	S.O.) Resubmitted with a typed draft for approval. Issued 23/3/59 25-3-59
	The tenders along with the Rev. Est. were placed before the S.T.A.C. which met on 5.8.59. The members were of opinion that the Est. will have to be recast. A Copy of the proceedings (draft) has already been sent, further action may be taken. U/s Dropped 10/8/59
	Action has been taken on the Tenders' file bearing No PWD 41/41/59 12/8/59

MYSORE GOVERNMENT SECRETARIAT No 1410 11 AUG 1959 P. W. D. (BUILDING SECTION)

Note.—Contn. Sheet

3738

GOVERNMENT OF MYSORE.

TELE GRAM: "PROJECTS"
PHONE:

GOVERNMENT SECRETARIAT
31 MAY 1957
PUBLIC WORKS BRANCH

Office of the Chief Engineer P.W.D.
Major Irrigation (NORTH)
MUNIRABAD (S.Rly.)

No. 260/P
12

Date 27th May, 1957.

To,

The Secretary to Govt.,
Public Works & Electrical,
Bangalore.

SUBJECT:— onstruction of Kánaka Nala Project.
(Raichur Dist).

Reference:—

I enclose herein twelve (12) copies of Brief Report on this Project, for placing before the Standing Technical Advisory Committee. Early action may please be taken in communicating the opinion of the Committee.

(T.S.Moorthi)
Chief Engineer, PWD,
Major Irrign. North.

MYSORE GOVERNMENT SECRETARIAT
NO. 3738
11 JUN 1957
PUBLIC WORKS MAJOR IRRIGATION BRANCH

KANAK NALA PROJECT -RAICHUR DISTRICT.

This project is included in II Five Year Plan, proposed to Irrigate about 3100 acres. Kanak Nala vises from the hill range of Thawargira in Kushtagi Taluk near Gudur village and flows towards east and crossing Lingasgur, Gangawathi road in mile 26 and joins Sindhnoor Stream in its 30th mile. The catchment area is all hilly an hence c lassified as good. The total cost of the dam is 15.50 lakhs.

This scheme consists of the construction of a reservoir just above Malàpur village (This site was selected by Chief Engineer,Major Irrigation North in the last week of February 1957 during his inspection The C.A. is 74 Sq. miles which gives are yield of 318.94 MCFT. out of which 256.00 MCFT. will be utilised for irrigation as under according to the cropping scheme fixed by Chief Engineer,Major Irrigation North.

Abi	250 acres.	at 0.20	-	50.00
Khariff	1600 "	at 0.06	-	96.00
Rabi.	1000 "	at 0.09	-	90.00
Garden	260 "	at 0.08	-	20.00
	3100 "			256.00 MCFT

The maximum discharge is calcuated by Ryve's formule wherein value of C - 1000 and works out to 17630 cusecs. It is proposed to dispose the surplus water by an F.O.F. weir of 660' length with 4' head from the right flank saddle.

The construction of this project will benofit 5 villages of Malapur,Bommanahalli,Ratnapur,Somknal and Gunda which are all scarcity area.

The selient feature are as follows.

Situation.	Long 76° 27' 30" Lat 15° 51' 0"
Catchment area.	74 Sq. miles (free)
Avg.annual rain fall.	16.60"
Yield per Sq. miles.	4.31 MCFT.
Total Yield .	318.94 "
F.R.L.	1611.00
M.W.L.	+1615.00
F.R.L.	+1626.00
Sill of sluice.	+1594.00
Capacity of reservoir at F.R.L.	223.852 MCFT.
Capacity of sill Reservoir.	21.08 "
Net capacity.	202.80 "
Percentage of net capacity to total yeild.	63.57 %
Percentage of available yield to total yield.	85.89 %
Available yield.	273.938 MCFT.
Maximum discharge(as per Ryves-formule C-1000)	17630 cusecs.
Length of F.O.F. weir.	660 ft.
Bed fall of stream.	1 in 250
Total cost of the project.	15.50 lakhs.
Area of submergence.	476.50 acres.
Percentage of return.	1.22 %

YGR.

GENERAL ABSTRACT O' KANAK HALA.

A. WORK.

Sub-Head (1)	Earth work.	Rs. 7,10,000
Sub-Head.(2)	F.O.F. weir.	Rs. 56,000
Sub-Head (3)	Sluice. L.S.	Rs. 15,000
Canal C Rs. 50 acres.		Rs. 1,55,000
		Rs. 9,36,000 or 9.36 lakhs.

B. Miscellaneous.

Land compensation 640 acres.	Rs. 2,00,000
Approach road 4 miles (from Muhlur village murum road.	Rs. 30,000
Raichur -Ligsugur Division.	Rs. 60,000
Camp Building.	Rs. 25,000
Tools and Plants.	Rs. 32,000
7½% Establishment charges.	Rs. 98,000
Audit charges.½%	Rs. 6,000
Contingencies 5%	Rs. 64,000
L.S. Under Chief Engineer's control for unforeseen if any.	Rs. 49,000
Total.	Rs.15,50,000

∴ Cost for acre $\frac{15.50.000}{100}$ - Rs. 500 acre.

Sd/-
CHIEF ENGINEER, PWD.
MAJOR IRRIGATION NORTH.
HYDERABAD.

YGR.

1. [illegible] 33.60'

2. [illegible] = 2/3
= 1040.76 4/5
= 17670 cubs.

3. [illegible]

C. C. [illegible] = 25.66

[illegible] = $\frac{17670}{25.66}$ = 690'

4. Available yield.

Capacity of reservoir in feet.

Yield per sq. mile = 6.30 [illegible]

Total yield = 7654.37 [illegible]

= 310.95 cubs.

5. Evaporation.

Jul	= 250 cubs. at 1.20 [illegible]	[illegible]
March	=470 " " 1.05 "	96.30
Feb.	1010 " " 1.00 "	90.00
[illegible]	[illegible] " " [illegible] "	[illegible]
	[illegible]	[illegible]

6. [illegible] = 1534.00 [illegible] 225.88 cubs.

[illegible] = 1534.00

[illegible] = 21.00 cubs.

[illegible] - 63.57 %

[illegible] total yield. 65.13 %

∴ Available yield = 273.130 cubs. ([illegible] the annual [illegible] 87.76 %)

Note:-

[illegible]

TRUE Copy

Sd/-

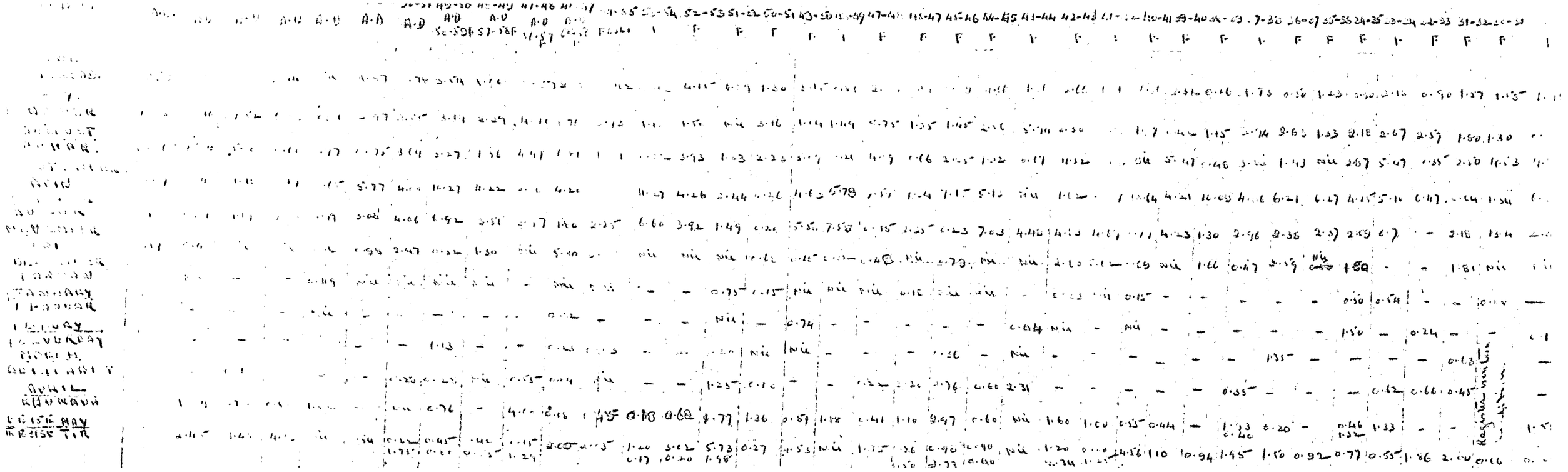
S.D.O. CANAL SURVEY

DIVISION YERMARS.

Sd/-

TAHSILDAR.

KUSHTAGI.



Appendix F. G.—1]

5

SUBJECT Construction of Kanakmala Project.

Diary No. of letter replied to .....

Section

File No.

Mysore Government Secretariat.

( )

the 195 .

Serial No.

No. Pwd / KHP 57

To

The C.E. M.I (N),

Muairabad,

Date of issue.....

Signed by.....

Sir,

~~With~~ I am directed to request you to forward a copy of G of India's letter addressed to ~~Secretary~~ Govt. of Hyderabad, where in it is stated that projects costing more than Rs. 50 lakhs only will have to be sent ~~to be sent~~ before the Planning Commission, Govt. of India for approval.

List of enclosures .....

Yours faithfully.

Copied by.....

Examined by .....

for Secy to Govt,
PWD

16/11

WD 03736-GPB—P.Z.S.— 50,000—1-3-56

16/11/57

7

Letter No.W/213/57, 5467/1/TS, dated 5-10-57, from the Chief Engineer, Major Irrigation (North) Munirabad, to the Secretary to Government, Public Works Department, Bangalore.

Sub: Construction of Hatti Koni Project Gulbarga District.

Ref: Your No.PWD 12 MIP 57 dt. 18-9-57.

I have to state that the approval of the Planning Commission is not necessary for the above project, as this scheme is costing less then Rs.50 lakhs. As per advise of the Chairman C.W.&.P.C. those schemes costing less than 50 lakhs need not be sent to Planning Commission. In this regard a copy of D.O.letter No.FYH II/IP/15/2/55 dt. 13-1-1956 from the Secretary Planning & Development, Department of former Government of Hyderabad is herewith enclosed for vour information.

=======

"Copy"

1/9/14 Original receipt is placed on file.

Pwd) 12 MIP 57

Office of the Secretary to Government,
Planning & Development Department, Hyd.Dn.

D.O.No.EYHII/IP/15/2/55 dt. 13th Jan. 1956.

Dear Shri Sukthankar,

I write to acknowledge with thanks your D.O.letter No.PC(V)/1(8)(A)/56 dated the 9-1-1956.

The Chief Engineer, Irrigation Projects, has informed me that the Project reports of the two projects included in the II Five Year Plan namely, Nagarjunasagar and Purna Projects have already been sent to you and are now under consideration of the Planning Commission.

With regard to Medium Irrigation Projects for which a sum of Rs.5 crores have been allotted by the Planning Commission, I am xx to state that as all of them cost less then Rs.50 laksh projects reports of these need not be sent to the Planning Commission. This is based on the advise of Shri Kunwar Sain, Chairman of the Central Water & Power Commission and this has also been brought to the notice of the planning Commission before. Project reports in connection with power Projects have also been sent to the Planning Commission, vide letter No.HEP/6831/14 dated 20-12-55 of the Chief Engineer, Electricity.

Sd. Jagjivan Chand.

Shri Y.N.Sukthankar ICS.,
Secretary Planning Commission,
New Delhi.

Copy forwarded for information to the Chief Natural Resources Division, Planning Commission, New Delhi with reference to his letter No.PC/(V)1(3)/55 dated 1-12-55. A copy of the detailed proposals to utilise the provisional allotment of Rs.25 lakhs and Rs.10/- lakhs for "Research and Investigations" respectively are enclosed.

Sd/- Asst. Secretary,
Planning & Development.

Copy forwarded to the Secretary, Public Works Dept. together with a copy of Shri Sukthanker, Secretary Planning Commission's D.O. quoted above, for information.

Sd/- Assistant Secy.
Planning & Development.

Copy forwarded with a copy of the Secy. Planning Commission's D.O.referred to above, for information to:-

1. Chief Engineer, (Irrigation Projects)
2. Chief Engineer, (Irrigation Branch)
3. Chief Engineer, (Electricity).

d/- Assistant Secretary
Planning & Development.

True Copy

for Secretary to Government,
Public Works Department.

Sml.19.

COUNCIL NOTE:

MYSORE GOVT. SECRETARIAT
NO.....
19 DEC 1957
S. A. D. (COUNCIL SECTION)

Sub:- Construction of a Dam across the Kanakanala Stream in Raichur District.

It is proposed to construct an earthen dam across the Kanakanala Stream just above Malapur village and the project is designed to irrigate an extent of about 3100 acres (X) ~~in five villages of Kustagi Taluk, Raichur District~~. This is an area in which scarcity conditions manifest themselves often.

The project will benefit, five villages of Malapur, Bommanahalli, Ratnapur, Sonknal and Gunda, in Kustagi Taluk, Raichur District.

2. The total estimated cost of the project is Rs 15.50 lakhs. ~~The~~ This investment works out to a rate of ~~about~~ Rs. 500/- per acre to be irrigated. The percentage return on this project is reported ~~to~~ be 1.22 per cent.

3. The FD have remarked that the project may be sanctioned subject to the condition that the net return should be at least 2½ or 3 percent. ~~The question of fixing Suitable rates of Betterment~~ Levy and Water-rate will be fixed in accordance with the rules under the ~~have to be taken up after rules are framed under the~~ Mysore Irrigation (Levy of Betterment contribution and water rate) ~~Act, 1957 and put into force.~~

(+) A new law regarding betterment contribution and water rates has been passed and the levies will be governed by the provisions of the law and of the rules thereunder. According to this law, contribution may go upto Rs 500 per acre and water rates depending upon the kind of crop grown, vary between Rs 5 to Rs 25/- per acre per annum. Suitable Betterment levy and water rates can be fixed, so as to get a net return of 2½ or 3 per cent. will have to be

4. This Project is included in the II Five Year Plan and a provision of Rs. 2 lakhs has been made for it in the current year's Budget.

5. The Project estimate is submitted to the Cabinet for approval under Rule 9 (xiii) of the Rules of Business.

Secretary to Govt.

10/12/57

The Proposal is to accord administrative approval to the project estimate of Rs 15.50 lakhs. ~~forwarded to Govt by the CE (N&C)~~.

COUNCIL NOTE:

Sub:-Construction of a Dam across the Kanakanala Stream in Raichur District.

1) Kanakanala Stream is a tributary of the Tungabhadra River. It rises from the hill range of Thavargera in Kushtagi Tq.

It is proposed to construct an earthen Dam across the Kanakanala Stream, just above Malapur Village, ~~and~~ The project is designed to irrigate an extent of about 3100 acres. The project will benefit five villages of Malapur, Bommanahalli, Ratnapur, Somknal and Gunda, in ~~Kustagi Taluk~~ Raichur District. This is an area in which scarcity conditions manifest themselves ofter

2. The total estimated cost of the project is Rs. 15.50 lakhs. This investment works out to a rate of Rs. 500/- per acre to be irrigated. The return on this project is stated to be 1.22 per cent.

3. The F.D. have remarked that the project may be sanctioned subject to the condition that the net return should be at least 2½ or 3 percent. A new law regarding betterment contribution and water rates has been passed and the levies will be governed by the provisions of the law and of the rules thereunder. According to this law, contribution may go up to Rs.500/- per acre ~~and water rates depending upon the kind of crop grown, vary between Rs. 5 to Rs.25/- per acre per annum.~~ Suitable betterment levy and water rates will have to be fixed, so as to get a net return of 2½ or 3 per cent. The proposal is to accord administrative approval to the project Estimate of Rs. 15.50 lakhs.

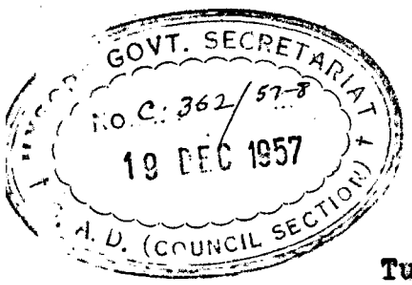
4. This project is included in the II Five Year Plan and a provision of Rs. 2 lakhs has been made for it in the current year's Budget.

5. The project estimate is submitted to the Cabinet for approval under Rule 9 (xiii) of the Rules of

P T O

PWD I KNP 57

COUNCIL NOTE:



C.362/57-8

Sub:- Construction of a Dam across the Kanakanala Stream in Raichur District.

Kanakanala Stream is a tributary to the Tungabhadra River. It rises from the hill range of Thawargira in Kushtagi Taluk of Raichur District. It is proposed to construct an earthen Dam across the ~~Kanakanala~~ Stream, just above Malapur Village. The project is designed to irrigate an extent of about 3100 acres, ~~The project~~ and the will benefit five villages of Malapur, Bommanahalli, Ratnapur, Somknal and Gunda, in Raichur District. This is an area in which scarcity conditions manifest themselves often.

2. The total estimated cost of the Project is Rs.15.50 lakhs. This investment works out to a rate of Rs. 500/- per acre to be irrigated. The return on this project is stated to be 1.22 per cent.

3. The F.D. have remarked that the project may be sanctioned, subject to the condition that the net return should be at least 2½ or 3 percent. A new law regarding betterment contribution and water rates has been passed and the levies will be governed by the provisions of the law and of the rules thereunder. According to this law, contribution may go up to Rs. 500/- per acre. Suitable betterment levy and water rates will have to be fixed, so as to get a net return of 2½ or 3 per cent. The proposal is to accord administrative approval to the project Estimate of Rs.15.50 lakhs.

4. This project is included in the II Five Year Plan and a provision of Rs.2 lakhs has been made for it in the current year's Budget.

5. The ~~project~~ project estimate is submitted to the Cabinet for approval under Rule 9 (xiii) of the Rules of Business.

Secretary to Government,
Public Works Department.

13/12/57

SECRET. PWD 1 KNP 57.

COUNCIL NOTE.

Subject:- C.362/57-8.
Construction of a Dam across the Kanakanala Stream in Raichur District.

Kanakanala Stream is a tributary to the Tungabhadra River. It rises from the hill range of Thawargira in Kushtagi Taluk of Raichur District. It is proposed to construct an earthen Dam across the Stream, just above Malapur Village. The project is designed to irrigate an extent of about 3100 acres, and will benefit the five villages of Malapur, Bommanahalli, Ratnapur, Somkal and Gunda, in Raichur District. This is an area in which scarcity conditions manifest themselves often.

2. The total estimated cost of the Project is Rs.15.50 lakhs. This investment works out to a rate of Rs.500/- per acre to be irrigated. The return on this project is stated to be 1.22 per cent.

3. The Finance Department have remarked that the project may be sanctioned, subject to the condition that the net return should be at least 2½ or 3 percent. A new law regarding betterment contribution and water rates has been passed and the levies will be governed by the provisions of the law and of the rules thereunder. According to this law, contribution may go up to Rs.500/- per acre. Suitable betterment levy and water rates will have to be fixed, so as to get a net return of 2½ or 3 per cent. The proposal is to accord administrative approval to the project Estimate of Rs. 15.50 lakhs ~~15.50 lakhs.~~

4. This project is included in the II Five Year Plan and a provision of Rs. 2 lakhs has been made for it in the current year's Budget.

5. The project estimate is submitted to the Cabinet for approval under Rule 9 (xiii) of the Rules of Business.

(D.K.Srinivasachar),
Secretary to Government,
Public Works Department.
23.12.57.

H.S.N.Rao)

18

SECRET.

Council Case No. C. 862/57-58.

Date... 23-12-57.

FOR CONSIDERATION AT
A MEETING OF THE COUNCIL

Council Note circulated for information

o/c

Dy. Secy.,
GAD.
23/12

Chief Minister,
All Ministers.

SECRET. PWD 1 KNP 57

COUNCIL NOTE.

Subject:- C.362/57-8.
Construction of a Dam across the Kanakanala Stream in Raichur District.

Kanakanala Stream is a tributary to the Tungabhadra River. It rises from the hill range of Thawargira in Kushtagi Taluk of Raichur District. It is proposed to construct an earthen Dam across the Stream, just above Malapur Village. The project is designed to irrigate an extent of about 3100 5100 acres, and will benefit the five villages of Malapur, Bommanahalli, Ratnapur, Somkal and Gunda, in Raichur District. This is an area in which scarcity conditions manifest themselves often.

2. The total estimated cost of the Project is Rs.15.50 lakhs. This investment works out to a rate of Rs.500/- per acre to be irrigated. The return on this project is stated to be 1.22 per cent.

3. The Finance Department have remarked that the project may be sanctioned, subject to the condition that the net return should be at least 2½ or 3 percent. A new law regarding betterment contribution and water rates has been passed and the levies will be governed by the provisions of the law and of the rules thereunder. According to this law, contribution may go up to Rs.500/- per acre. Suitable betterment levy and water rates will have to be fixed, so as to get a net return of 2½ or 3 per cent. The proposal is to accord administrative approval to the project Estimate of Rs.15.50 lakh

4. This project is included in the II Five Year Plan and a provision of Rs. 2 lakhs has been made for it in the current year's Budget.

5. The project estimate is submitted to the Cabinet for approval under Rule 9 (xiii) of the Rules of Business.

(D.K.Srinivasachar), 23/12/57
Secretary to Government,
Public Works Department.

(H.S.N.Rao) 23/12/57

SECRET. PWD 1 KNP 57.

COUNCIL NOTE.

Subject:- C.362/57-8.
Construction of a Dam across the Kanakanala Stream in Raichur District.

Kanakanala Stream is a tributary to the Tungabhadra River. It rises from the hill range of Thawargira in Kushtagi Taluk of Raichur District. It is proposed to construct an earthen Dam across the Stream, just above Malapur Village. The project is designed to irrigate an extent of about 3100 acres, and will benefit the five villages of Malapur, Bommanahalli, Ratnapur, Somkal and Gunda, in Raichur District. This is an area in which scarcity conditions manifest themselves often.

2. The total estimated cost of the Project is Rs.15.50 lakhs. This investment works out to a rate of Rs.500/- per acre to be irrigated. The return on this project is stated to be 1.22 per cent.

3. The Finance Department have remarked that the project may be sanctioned, subject to the condition that the net return should be at least 2½ or 3 percent. A new law regarding betterment contribution and water rates has been passed and the levies will be governed by the provisions of the law and of the rules thereunder. According to this law, contribution may go up to Rs.500/- per acre Suitable betterment levy and water rates will have to be fixed, so as to get a net return of 2½ or 3 per cent. The proposal is to accord administrative approval to the project Estimate of Rs.15.50 lakh

4. This project is included in the II Five Year Plan and a provision of Rs. 2 lakhs has been made for it in the current year's Budget.

5. The project estimate is submitted to the Cabinet for approval under Rule 9 (xiii) of the Rules of Business.

(D.K.Srinivasachar), 23/12/57
Secretary to Government,
Public Works Department.

H.S.N.Rao) 23/12/57

proc IKNP 57

Read :-

Letter no. 2150/R of 29.5.57 from the CE, RDR, forwarding an estimate amounting to Rs. 15.50 lakhs for constructing a dam across the Kamakanda Nullah in Raichur Dt.

Order issued vide no. PWD IKNP 57, dt. 31-12-1957 the estimate is accorded ~~approved~~ for Rs. 15.50 lakhs under "68 MISC - (Commercial)"

B.O. No.

30.12.57

Secy. to Govt.

Issued
MP
6/1/58

To the CE, RDR, with the estimate.

" Accts. Gen. I.D.

Copy to Council Section.
with ref. to Council case no. C.362/57-58 of 29.12.57

30/12/57

Proc 1 KMP 57)

01-31-12-57)
6-1-58

To

The Chief Engr.

Kumarkanda project, Raichur Dt.

Sir

Adverting to the G.O. No! Proc 1 KMP 57) dt 31-12-57) according Administrative approval to the above said project estimate, I am directed to state that suitable settlement-levy & water rates will have to be fixed so as to realise at least a return of not less than 2½ to 3 P.C., after the Mysore Exemption (Settlement Levy & water-Rate) Act, 1957 and the Rules thereunder come into force

Issued
NP
6/1/58.

Yours
30/12/57

Sec. to Govt
Proc
30.12.57

GOVERNMENT OF MYSORE.

TELE { GRAM: "PROJECTS" PHONE:

Office of the Chief Engineer P.W.D.
Major Irrigation (NORTH),
MUNIRABAD (S. Rly.)

NO. 8047 23 DEC 1957 PUBLIC WORKS BR. NGH

No. W/102/56/8047/TS Date 20-12-1957.

NO. 9047 DEC 1957 PUBLIC WORKS MAJOR IRRIGATION BRANCH

To,

The Secretary to Government,
Public Works Department,
Government of Mysore,
Bangalore.

SUBJECT:— Construction of Kanak Nala Project.

Reference:— This office letter No.1) 260/12/P dt.27.5.1957,
2) No.W/102/56/6230/TS dated 7.11.1957,
3) No.W/102/56/7481/TS dated 3.12.1957.

Sir,

I have to invite your attention to the letters mentioned above, and to request you to communicate administrative approval to the above project at an early date.

Yours faithfully,

for Chief Engineer, P.W.D.,
Major Irrigation (North)
Munirabad.

Va/19.12.'57.

GOVERNMENT OF MYSORE

TELE { GRAM: "PROJECTS" / PHONE:

Office of the Chief Engineer, P.W.D.
Major Irrigation (NORTH)
MUNIRABAD (S. Rly.)

No. W/102/56/6230/Ts

Dated 7-11-1957

MYSORE GOVERNMENT SECRETARIAT
NO. 7737
13 NOV 1957
PUBLIC WORKS MAJOR IRRIGATION BRANCH

MYSORE GOVERNMENT SECRETARIAT
NO. 7231
11 NOV 1957
PUBLIC WORKS BRANCH

The Secretary to Government,
Public Works Department,
Bangalore.

SUBJECT:— Sub:- Construction of Kanak Nala Project.

Reference:—

Sir,

I have to invite your attention to this office letter No. 260/P dt. 27-5-57 and request you to communicate administrative approval to the above project at an early date.

Yours faithfully,
M.K. Ramaiah
6/11/57
for Chief Engineer, PWD,
Major Irrigation North,
Munirabad.

S.N.Rao
6.11.57

YGR. 6/11.

Pwd 1 KMP 57

The orders on the file are separately under issue. This will be placed on the file on its return

yes
Sms
17/12/57

7/12

With connected papers

3

GOVERNMENT OF MYSORE

TELE { GRAM: "PROJECTS" / PHONE:

Office of the Chief Engineer, P.W.D.
Major Irrigation (NORTH)
MUNIRABAD (S. Rly.)

MYSORE GOVERNMENT SECRETARIAT NO. PWD 4 NOV 1957 PUBLIC WORKS BRANCH

No. 6036/Ts. Dated 1-11-195)

MYSORE GOVERNMENT SECRETARIAT NO. 7553 Do, 5 NOV 1957 PUBLIC WORKS MAJOR IRRIGATION BRANCH

The Secretary to Government,
Public Works Department,
Bangalore.

SUBJECT:— Kanka Nala Project Sindhnoor Taluk Raichur Dist.

Reference:— This office letter No. 260/P dated 27-5-57.

Sir,

Administrative Approval to the Scheme may please be communicated at an early date. So that the work could be taken up immediately.

Yours faithfully,

for Chief Engineer, 30/10/57
PWD,
Major Irrigation North,
Munirabad.

S.N.Rao 31.10.57

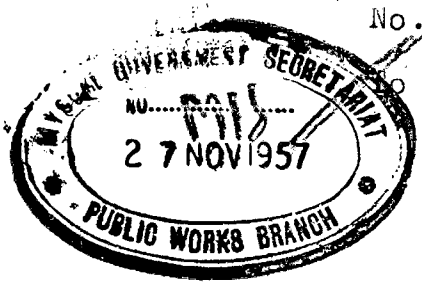
YGR. 31Ø10.

GOVERNMENT OF MYSORE.

Teleg."Projects"

Office of the Chief Engineer, PWD.
Major Irrigation(North)
P. O. Munirabad. Dist: Raichur.

No. 7126 /TS dated. 13-11-1957.



The Secretary to Government,
Public Works Department,
Government of Mysore,
Bangalore.

Sub:- Kanaknala Project-Administrative approval of -

Ref:- This office No.260/P dt. 27.5.'57 and 6036/T.S/ dated 1.11.1957.

Sir,

I write to request to communicate the administrative approval to the Scheme for taking up the execution early.

Yours faithfully,

for Chief Engineer, P.W.D.
Major Irrigation (North)
Munirabad.

O. C. APPROVED
BY C. E.

Va/23.11.'57.

Government of Mysore.

Office of the Chief Engineer, PWD.,
Major Irrigation (North)
P. O. Munirabad, Dist: Raichur.

No. W/102/56/7481/TS dated. 3-12-57

To

The Secretary to Government,
Public Works Department,
Government of Mysore,
Bangalore.

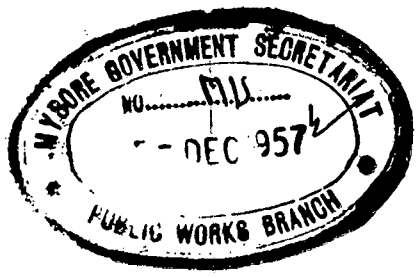
Sub:- Construction of Kanak Nala Project.

Sir,

I have to invite your attention to this office letter No. W/102/56/6230/T.S.dt.7.11.'57, and to request you to communicate Administrative approval to the above project at an early date.

Yours faithfully,

for Chief Engineer, P.W.D.,
Major Irrigation (North)
Munirabad.



Va/2.12.'57.

Section No.2CL/ dated 27-3-57 [illegible]
[illegible] Rs.15.50 [illegible]
[illegible]

Order [illegible] IKNP 57

[illegible] Bangalore, dated 30/31st December 1957.

The [illegible] Rs.15.50 [illegible] (Section 1)

By order and in the
[illegible] Government of Mysore,

[illegible]
Secretary to Government,
[illegible]

To
The Director of Treasuries, Bangalore.
The Accountant General (Accounts with the cash
Bangalore.

Copy to Council Section with reference to Council
case No.C.362/57-58 dated 23-12-57.

GOVERNMENT OF MYSORE

TELE { GRAM: "PROJECTS" PHONE:

Office of the Chief Engineer, P. W. D., Major Irrigation (NORTH)
MUNIRABAD (S. Rly.)

No W/102/56/8747-68/Plans and Estimates in duplicate/113 Dated 22-12-1958

MYSORE GOVERNMENT SECRETARIAT No 12319 27 DEC 1958 PUBLIC WORKS MAJOR IRRIGATION BRANCH

To,

The Secretary to Government,
Public Works Department,
Mysore - Bangalore.

MYSORE GOVERNMENT SECRETARIAT MIS 26 DEC 1958 PUBLIC WORKS BRANCH

Subject: Revised estimate of construction of Kanak Nala Project Raichur District.

...

Reference:

Mr. UBB

Sir,

I write to forward herewith in duplicate the revised estimat of Kanak Nala Project amounting to Rs. 30,16,627/- for favour of sanction.

The above project was administratively sanctioned for Rs. 15.50 lakhs under Government Order No. PWD/KNP 57 D/- 31.12.57.

The excess over the sanctioned amount is due to the provision of Draft channel and allied works as explained in the accompanying report. There is a fall of 34 ft. between the apron of the weir and the bed of the parent stream, where the surplus course meets the same, in a distance of 21 chains. The trial pit results show that hard murram and very hard murram is available about 5 ft. belo This necessitates the restriction of velocity within safe limits and the same is obtained by providing 5 Nos. of masonry drops of 6 ft each and a draft channel. The present estimate of waste weir, draft channel and masonry drops with protective works is framed after conducting detail surveys of the site.

In the revised estimate the provisions under earthen dam and sluice are retained, as per sanctioned estimate, only the current years rates have been provided for. The Executive Engineer, has suggested to utilise the part of excavated soils of draft channel

for the construction of earthen bund; As these soils have to be tested before they can be utilised no credit is given to this quantity. During execution if theso soils are found suitable, after test, necessary credit will be given.

The other necessary L.S. provisions are made in the estimate.

The Superintending Engineer, P.W.D., Tungabhadra Reservoir Circle, Munirabad has been instructed to call for tenders for the work. The action taken may kindly be approved and sanction of Government to the revised estimate may be communicated at an early date.

...

Encl:

Plans & estimates in duplicate. 2 sets.

Yours faithfully,

for CHIEF ENGINEER, P.W.D.
MAJOR IRRIGATION(NORTH)
MUNIRABAD RAICHUR DIST.

M.A.G.
20/12/58

[Appendix F. G.—1]

43

SUBJECT Revised estimate of construction of Kamala Nala Project Raichur Dist.

Diary No. of letter replied to .....

Mysore Government Secretariat.

( )

the 195

Date of issue.....

Signed by.....

List of enclosures .....

Copied by.....

Examined by .....

Section

File No.

Serial No.

No. PWD HKNPS

To The C.E. Project (IV)

Sir,

With ref to your letter No WTC2 1:6/8-747-4 Tk3 dt 22-12-58 on the above subject, I am directed to request you to state

Received 13/1

whether technical Sanction to the original estimate was accorded by you and if so when, and the circumstances leading to the increase in the estimate were not foreseen then.

for Under Secy

W.D-01787—GPB—PZS—100,000—10-2-58.

8/1/59

Copy to the S.E. T.R.C. for info. & necy. action

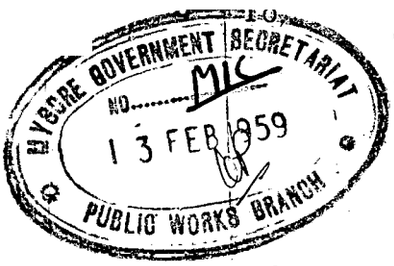
GOVERNMENT OF MYSORE

TELE { GRAM: "PROJECTS"
PHONE:

Office of the Chief Engineer, P. W. D.,
Major Irrigation (NORTH)
MUNIRABAD (s. Rly.)

No W/102/56 1462/TA2

Dated 10-2-1959



The Secretary to Government,
Public Works Department,
Bangalore.

Mr. 0788

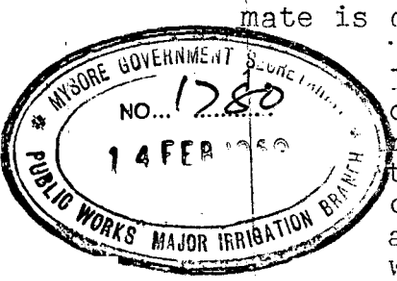
SUBJECT: Revised estimate of construction of Kanak Nala Project-Raichur Dist.

Reference: Your letter No. PWD1KNP 57 dt. 13-1-1959.

....

Sir,

I write to state that the technical sanction to the original estimate was accorded vide this office letter No.487-90/TS Dt. 18-1-58 for Rs. 15.50 lakhs. The increase in the revised estimate is due to the following reasons.



In the original (Sanctioned) estimate it was proposed to construct a F.O.F. Weir 660 ft long and 6' high, on the right Flank saddle to discharge the surplus water. Now the alignment of certain portion of the Dam and weir is changed to make it straight and an ogee weir 660 ft. long and 12 ft. high above the ground level with protective works on Down Stream is proposed.

2. In the original estimate there was no provision for draft channel. Now the provision of draft channel with 5 masonry drops has been made to reduce to the huge velocity of water, and to lead the surplus water to the parent stream. Due to revised proposals of weir and draft channel etc., the cost of the revised estimate is increased.

3. In the sanctioned estimate the masonry works were proposed to be constructed in Lime Surki Mortar. But in the revised estimate the masonry works are proposed in cement mortar as lime is not available within reasonable lead in sufficien quantity.

4. In the revised estimate the current rates have been allowed for the whole work, which has resulted in excess.

5. The irrigation channel has to cross the surplus channel. A Lumpsum provision of Rs. 1,00,000 is kept in the revised estimate for constructing R.C.C. ducts etc., This provision was not made in the original estimate.

6. An extra provision of Rs. 50,000/- for diversion of Gangawathi Lingsugur road, a Lumpsum provision of Rs.25,000/- for compaction of earth work and extra Lumpsum provision of -- Rs. 1,05,000 towards tools and Plant are kept in the revised estimate.

PTO.

Due to the reasons mentioned above the cost of the revised estimate has been increased. I request you to communicate Government sanction at an early date, as tenders for the work are already called for.

Yours faithfully,

CHIEF ENGINEER, PWD,
Major Irrigation North,
Munirabad.

YGR. 9/2.

Appendix F. G.—1]

SUBJECT Revised estimate of construction of 1 Canada Main Project - Raichur Dist.

Diary No. of letter replied to .....

Section

File No.

Mysore Government Secretariat.

Serial No.

( )

the 195 .

No. PWD-1(KNPS)

To

The CE(C&N)

Date of issue.....

Sir,

Signed by.....

I am to refer letter No W/102 L-6/1462/TA2 dt 10/2 L-9 from the above Subject, I am directed enquire whether to state whether the estimate is now over Rs 25 lakhs or not. Consider it necessary to place the estimate before as it is now over Rs. 25 lakhs, the State, and if so I am to request you to take urgent action accordingly.

List of enclosures .....

Copied by.....

It is seen from the present proposals that the lengths of the masonry work, drop walls

Examined by .....

which is
~~proposed to be of the high coefficient~~
has been kept the same, viz,
~~Ogee type could be reduced to~~
both, as has originally been proposed,
~~accommodate the same discharge as~~
As the present proposal for the weir would
~~as with the same length of 630 ft~~
accommodate for a higher coefficient as well as
~~of the ordinary free overfall masonry~~
for a higher depth of shrinkage, it is felt that the length would be sufficient for navigation and consequently the cost of the Estimate would get reduced.
~~body wall as originally proposed~~
it is felt that
~~being retained, the estimate could~~
~~be further reduced.~~ I am to request
you to examine this further and
aspect
recast the estimate if considered
necessary unless you feel that the
Site may consider the main
technical questions first.
~~A details~~

Y. f.
22.3.57
U.S. to Govt.

Copy to the Secy. S.T.B.C. for
info.

U-S to Govt

Ng
21/3/57 2136 9

PWD 1 KNP 57

27/3/59

To

The C.E.M.I.(N)
Munirabad.

Sir,

Sub: Revised estimate of construction of Kanaknala Project - Raichur Dist

0====0

With reference to your letter No.W/102/56/1462/TA2, dated 10-2-59 on the above subject, I am directed to enquire whether you do not consider it necessary to place the estimate before the S.T.A.C. as it is now over Rs.25 lakhs, and if so I am to request you to take urgent action accordingly.

It is seen from the present proposals that the length of the masonry weir which is to be of the high coefficient ogee type has been kept the same, viz. 660 ft. as had originally been proposed. As the present proposal for the wier would accommodate for a higher coefficient as well as for a higher depth of spillage, it is felt that the length would be susceptible for reduction, and consequently the cost of the Estimate would get reduced. I am to request you to examine this aspect further and ~~request~~ recast the estimate if considered necessary unless you feel that the S.T.A.C. may consider the main technical question first.

Issued 27/3

Yours faithfully;

Sd/-
U.Secy. PWD.

Copy to the Secy. S.T.A.C. for information.

U.Secy. PWD.

28/3/59

GOVERNMENT OF MYSORE

No. PWD 1 KNP 57

Mysore Government Secretariat,
VIDHANA SOUDHA,
Dated, Bangalore, 24th March 195 9.

FROM

Secretary to the Government of Mysore,
Public Works Department Bangalore.

To

The Chief Engineer,
Major Irrigation (North),
MUNIRABAD.

Sir,

Sub:-Revised estimate of construction of
Kanaknala Project - Raichur District.

With reference to your letter No. W/102/56/1462/TA2, dated 10-2-1959 on the above subject, I am directed to enquire whether you do not consider it necessary to place the estimate before the Standing Technical Advisory Committee as it is now over Rs. 25 lakh and if so I am to request you to take urgent action accordingly.

It is seen from the present proposals that the length of the masonry weir which is to be of the High Coefficient Ogee type has been kept the same, viz., 660 ft. as had originally been proposed. As the present proposal for the mmk wier would accommodate for a higher coefficient as well as for a higher depth of spillage, it is felt that the length would be susceptible for reduction, and consequently the cost of the Estimate would get reduced. I am to request you to examine this aspect further and recast the estimate if considered necessary unless you feel that the Standing Technical Advisory Committee may consider the main technical question first.

Yours faithfully,

(K.Padmanabhan),
Under Secretary to Government,
Public Works Department.

Copy to the Secretary, Standing Technical Advisory Committee for information.

K. Padmanabhan 26/3/59
Under Secretary to Govt. PWD.

PK:

KANAK NALA PROJECT -RAICHUR DISTRICT.

This project is included in II Five Year Plan, proposed to Irrigate about 3100 acres. Kanak Nala vises from the hill range of Thawargira in Kushtagi Taluk near Gudur village and flows towards east and crossing Linasgur, Gangawathi road in mile 26 and joins Sindhnoor stream in its 36th mile. The catchment area is all hilly an hence c lassified as good. he total cost of the dam is 15.50 lakhs.

This scheme consists of the construction of a reservoir just above Malapur village (This site was selected by Chief Engineer,Major Irrigation North in the last week of February 1957 during his inspectio The C.A. is 74 Sq. miles which gives are yield of 318.94 MCFT. out of which 256.00 MCFT. will be utilised for irrigation as under accordin to the cropping scheme fixed by Chief Engineer,Major Irrigation North.

Abi	250 acres.	at 0.20	-	50.00
Khariff	1600 "	at 0.06	-	96.00
Rabi.	1000 "	at 0.09	-	90.00
Garden	260 "	at 0.08	-	20.00
	3100 "			256.00 MCFT.

The maximum discharge is calcuated by Ryve's formule wherein value of C = 1000 and works out to 17630 cusecs. It is proposed to dispose th Surplus water by an F.O.F. weir of 660' length with 1' head from the right flank saddle

The construction of this project will benefit 5 villages of Malapur,Bommanahalli,Ratnapur,Somknal and Gunda which are all scarcity area

The selient feature are as follows.

Situation.	Long 76° 27' 30" Lat 15° 51' 0"
Catchment area.	74 Sq. miles (free)
Avg.annual rain fall.	16.60"
Yield per Sq. miles.	4.31 MCFT.
Total Yield .	318.94 "
F.R.L.	+1611.00
M.W.L.	+1615.00
T.R.L.	+1626.00 +1620.00
Sill of sluice.	+1594.00
Capacity of reservoir at F.R.L.	223.852 MCFT.
Capacity of sill Reservoir.	21.08 "
Net capacity.	202.80 "
Percentage of net capacity to total yeild.	63.57 %
Percentage of available yield to total yield.	85.89 %
Available yield.	273.938 MCFT.
Maximum discharge(as per Ryves-formule C=1000)	17630 cusecs.
Lehgth of F.O.F. weir.	660 ft.
Bed fall of stream.	1 in 250
T otal cost of the projec	15.50 lakhs.
Area of submergence.	476.50 Acres.
Percentage of return.	1.22 %

YGR.

GENERAL ABSTRACT OF KANAK NALA.

A. WORK.

Sub-Head (1)	Earth work.	Rs. 7,10,000
Sub-Head.(2)	F.O.F. weir.	Rs. 56,000
Sub-Head (3)	Sluice. L.S.	Rs. 15,000
Canal @ Rs. 50/ acres.		Rs. 1,55,000
		Rs. 9,36,000 or 9.36 lakhs.

B. Miscellaneous.

Land compensation 640 acres.	Rs. 2,00,000
Approach road 4 miles (from Muhlur village murum road.	Rs. 80,000
Raichur -Ligsugur Division.	Rs. 60,000
Camp Building.	Rs. 25,000
Tools and Plants.	Rs. 32,000
7½% Establishment charges.	Rs. 98,000
Audit charges.½%	Rs. 6,000
Contingencies 5%	Rs. 64,000
L.S. Under Chief Engineer's control for unforeseen if any.	Rs. 49,000
Total.	Rs.15.50.000

∴ Cost for acre $\frac{15.50.000}{3,100}$ - Rs. 500/acre.

Sd/-

CHIEF ENGINEER, PWD.
MAJOR IRRIGATION NORTH.
MUNIRABAD.

YGR.

HYDRALOGY DETAILS OF KANAK NALA PROJECT.

1. Average monsoon rain fall. 16.60"

2. Q = maximum discharge - C.M. 2/3

- 1000.74 $^{2/3}$

- 17630 cusecs.

3. Surplus.

F.O.F. weir with 4' head c/ft. length = 26.66

Length required - $\frac{17630}{26.66}$ = 660'

4. Available yield.

Nature of catchment is good

Yield per sq. mile - 4.31 MCFT.

Total yield. - 74x4.3

318.94 MCFT

5. Utilisation.

Abi	250 acres	at 0.20 MCF	50.00
Kharif.	1600 "	at 0.06 "	96.00
Rabi.	1000 "	at 0.09 "	90.00
Garden	250 "	at 0.08 "	20.00
	3100 "		256.00

6. Capacity is selected at + 1616.00 i.e. F.R.L. giving a capacity of 225.82 MCFT.

Taking sill level at + 1594.0

The dead storage will be 21.08 MCFT.

Percentage of capacity to total yield - 63.57 %.

Percentage of available yield to total yield. 85.89 %

Available yield - 273.838 MCFT. (where as the actual utilisation is 256 MCFT.)

Note:-

The rain fall records are attached herewith.

YGR.

TOTAL OF THE YEAR		26.43	23.86	28.00	13.23	23.22	19.75	30.66	16.10	24.15	24.86	12.53	23.97	21.40	19.15	17.79	23.42	20.42	22.74	19.64	23.38	31.20	15.00	30.20	27.89	27.55	18.19	15.69	20.17	18.79	12.12	18.14	19.16	13.05	13.28	–	17.20
TOTAL FOR MANSOON.	19.69	22.54	16.00	23.17	11.22	14.44	15.03	27.19	13.24	18.06	16.95	11.17	22.42	17.76	9.65	15.23	17.49	18.92	19.96	14.40	11.74	28.70	12.25	22.73	19.22	21.60	16.65	13.08	16.37	13.15	11.20	11.69	16.12	10.29	8.39	22.12	14.72

SD/-

TNASILDAR.

KUSHTAGI.

TRUE Copy.

SD/-

S.D.O. CANAL SURVEY

DIVISION YERMARS.

(Receive of Joint Naridar's letter No. 1915 Dated 2-12-1958).

MONTHLY RAIN FALL RECORDS OF RAIN GAUGE SITUATED IN THE PREMISES OF TAHSIL OFFICE KUSHTAGI TALUA RAICHUR DISTRICT FROM 1956-57 A.D TO 1329-30 ...

MONTHLY RAIN FALL DURING THE RESPECTIVE YEARS.

Months.	19-56-57 A.D.	55-56 A.D	54-55 A.D	53-54 A.D	52-53 A.D	51-52 A.D	50-51 A.D	49-50 A.D 58-59 F	48-49 A.D 57-58 F	47-48 A.D 56-57 F	46-47 A.D 55-56 F	13 54-55 FASLI	53-54 F	52-53 F	51-52 F	50-51 F	49-50 F	48-49 F	47-48 F	46-47 F	45-46 F	44-45 F	43-44 F	42-43 F	41-42 F	40-41 F	39-40 F	38-39 F	37-38 F	36-37 F	35-36 F	34-35 F	33-34 F	32-33 F	31-32 F	30-31 F	29-30 F
JUNE AMERDAD.	3.53	Nil	0.38	2.74	Nil	1.87	0.78	3.54	1.66	3.57	2.38	0.42	3.03	4.15	4.29	1.30	3.15	0.86	2.80	0.80	0.89	4.66	1.36	9.66	1.81	6.36	2.32	0.06	1.73	0.50	1.23	0.30	2.18	0.90	1.27	1.58	1.46
JULY. SHAVER	6.08	3.16	7.52	6.83	0.81	2.97	2.55	3.19	3.29	4.70	1.76	3.73	1.10	1.50	Nil	5.16	1.04	1.49	5.75	1.25	1.45	2.56	5.74	2.30	3.13	1.87	0.42	1.15	2.94	2.63	1.33	2.18	2.67	2.57	1.80	1.30	0.08
AUGUST MEHAR	0.86	6.84	5.80	0.60	0.77	0.75	3.64	3.27	1.56	4.47	6.81	1.69	0.42	3.93	1.23	2.23	3.09	3.21	4.09	0.66	2.05	9.32	0.67	11.52	6.72	Nil	5.47	0.48	3.88	1.43	Nil	2.87	5.47	0.35	2.50	4.53	4.60
SEPTEMBER ABIN	5.07	8.48	1.11	5.17	0.65	5.77	4.00	10.27	4.22	2.36	4.20	2.88	11.27	4.26	2.44	8.26	4.63	5.78	7.59	9.34	7.15	5.13	Nil	1.62	2.87	12.64	4.21	10.09	4.86	6.21	6.27	4.25	5.10	6.47	0.64	1.34	6.31
OCTOBER. AUZUR	4.15	4.01	1.19	7.83	8.99	3.08	4.06	6.92	3.57	2.97	1.80	2.25	6.60	3.92	1.49	0.20	5.58	7.58	0.15	2.35	0.23	7.03	4.48	4.63	4.69	0.79	4.23	1.30	2.96	2.38	2.3)	2.09	0.7	—	2.18	13.4	2.27
NEVEMBER DAI	3.17	0.45	Nil	Nil	Nil	0.98	2.47	0.32	1.30	Nil	5.30	0.83	Nil	Nil	Nil	0.68	0.15	0.32	0.48	Nil	3.79	Nil	Nil	2.60	5.62	0.69	Nil	1.66	0.47	2.19	Nil	0.50	—	—	1.81	Nil	Nil
DECEMBER BHAMAN		Nil	—	—	0.49	Nil	Nil	Nil	Nil	—	Nil	Nil	—	—	—	0.78	0.15	Nil	Nil	Nil	0.18	Nil	Nil	0.33	Nil	0.15	—	—	—	—	—	1.50	—	0.24	—	—	0.1
JANUARY ISFANDAR		—	—	—	—	Nil	—	—	—	—	0.22	—	—	—	Nil	0.20	Nil	Nil	0.74	—	—	—	0.44	Nil	—	Nil	—	—	—	—	—	—	—	0.63	—	—	—
FEBURY FERVERDAY		—	—	—	—	—	—	1.13	—	—	0.23	0.03	—	—	—	1.25	0.18	—	—	0.36	—	—	Nil	—	—	—	—	—	—	1.35	—	—	—	—	0.62	0.66	0.45	—
MARCH ARDIBAHIST		—	0.63	—	—	—	0.28	0.28	Nil	0.58	0.04	Nil	—	—	1.25	1.36	0.87	1.18	0.41	1.10	2.97	0.60	Nil	1.60	1.00	0.55	0.44	—	1.93 0.40	6.20	—	0.46 1.32	1.33	—	—	—	1.58
APRIL KHURADA		1.04	3.78	0.50	1.52	—	Nil	0.76	—	4.60	0.18	0.45	0.18	0.68	0.77	0.27	4.53	Nil	1.75	0.26	0.90	0.90	Nil	1.20	0.80	4.56	1.10	0.94	1.95	1.50	0.92	0.77	0.55	1.86	2.00	0.66	0.80

The project is located in [illegible], proposed to [illegible] from this village and flow to [illegible] Chandrabhaga river in its 36th mile. The catchment is all hilly and [illegible] light soil as good. The total cost of the [illegible] 15.50 lakhs.

The scheme consists of the construction of a masonry [illegible] Kalgaon village (this site was selected by Chief [illegible] Irrigation Deptt in the last week of February 1957 during [illegible] The C.A. is 74 sq. miles which gives rise yield of 318.94 mcft. out which 256.00 mcft. will be utilised for irrigation as under to the cropping scheme fixed by Chief Engineer, Major Irrigation [illegible]

Rbi	250 acres.	at 0.20	=	50.00
Kharif	1600 "	at 0.06	=	96.00
Rabi.	1000 "	at 0.09	=	90.00
Garden	250 "	" 0.08	=	20.00
	3100 "			256.00 mcft.

The maximum discharge is calculated by Ryve's formula which is of C = 1000 at each end to 17630 cusecs. It is proposed to [illegible] surplus water by an S.F.R. inlet of 600' length which is [illegible] with Stank spills.

The submersion of this pond will [illegible] 5 villages of [illegible] Kalgaon, Kurgaon and Kundgaon and all [illegible]

The salient features are as follows.

Situation.	Lon. 76° 27' 30" Lat 19° 59' 0"
Catchment area.	74 Sq. miles (Area)
Annual rain fall.	16.60"
Run off.	4.31 Inch.
Total Yield.	318.94 mcft.
F.R.L.	1611.00
M.W.L.	1615.00
M.B.L.	1618.00
Bed level.	1596.00
Capacity of reservoir at F.R.L.	323.652 mcft.
Capacity of dead reservoir.	21.00 "
Live capacity.	302.80 "
Percentage of net annually run off to total yield.	63.57 %
Percentage of dead to total yield.	05.49 %
Annual yield.	273.938 mcft.
Maximum discharge (by Ryve's formula C=1000)	17630 cusecs.
Length of S.F.R. weir.	600 ft.
Top bed of sluices.	1 in 250
Total cost of the project.	15.50 lakhs.
Area of submergence.	476.50 acres.
Percentage of return.	1.32 %

[illegible] ESTIMATE [illegible]

A. [illegible]

Sub-Head (1)	Earth work.	Rs. 7,10,000
Sub-Head.(2)	F.O.P. weir.	Rs. 50,000
Sub-Head (3)	Sluice. L.S.	Rs. 15,000
Canal 0 Rs. 50 acres.		Rs. 1,55,000
		Rs. 9,30,000

B. Miscellaneous.

Land compensation 640 acres.	Rs. 2,40,000
Approach road 4 miles (from Mullur village to Arcot road.	Rs. 60,000
Palchur -Lingapur Division.	Rs. 60,000
Camp Buildings.	Rs. 25,000
Tools and Plants.	Rs. 32,000
7½% Establishment charges.	Rs. 93,000
Audit charges.½%	Rs. 6,000
Contingencies 5%	Rs. 65,000
L.S. Under Chief Engineer's control for unforeseen if any.	Rs. 40,000
General.	Rs.15,50,000

i. Cost for acre $\frac{15,50,000}{3,100}$ = Rs. 500 per Ac.

sd/-

[illegible]

[illegible]

[illegible]

YGI.

1. Average monsoon rain fall. 16.60"

2. Q = maximum discharge = C.A. $I^{2/3}$

$= 1000.74^{2/3}$

= 17630 cusecs.

3. Surplus.

P.W.F. main with 4' bund = 1/ft. length = 26.45

Length required = $\frac{17630}{26.65}$ = 660'

4. Available water.

Catchment area = 1 sq. mile.

Yield per sq. mile = 4.31 M.G.

Total yield = 7645.31

= 31.06 M.G.

5. Utilisation.

Rabi	= 350 acres	at 1.20 M.G.		50.00
Kharif	=1600 "	at 0.06 "		96.00
Rabi	1000 "	at 0.09 "		90.00
Garden	250 "	at 0.08 "		20.00
	3200 "			256.00 M.G.

6. Capacity is selected at + 1616.00 i.e. F.R.L. giving a capacity of 225.82 M.G.

Taking sill level at + 1504.00

The dead storage will be 21.08 M.G.

Percentage of capacity to total yield = 63.57

Percentage of available yield to total yield. 85.89

∴ Available yield = 272.030 M.G. (whereas the actual utilisation is 256 M.G.)

Note:-

The rain fall records are attached herewith.

Yon.

| | | |

MONTHLY RAIN FALL RECORDS OF RAINGAUGE SITUATED IN THE PREMISES OF TAHSIL OFFICE KUSHTAGI TALUQ RAICHUR DISTRICT FROM 1956-57 A.D TO 1329-30 FASLI = 37 YEARS.

MONTHLY RAIN FALL DURING THE RESPECTIVE YEARS.

Months	1956-57 A.D	55-56 A.D	54-55 A.D	53-54 A.D	52-53 A.D	51-52 A.D	50-51 A.D	49-50 A.D 58-59 F	48-49 A.D 57-58 F	47-48 A.D 56-57 F	46-47 A.D 55-56 F	13 54-55 FASLI	53-54 F	52-53 F	51-52 F	50-51 F	49-50 F	48-49 F	47-48 F	46-47 F	45-46 F	44-45 F	43-44 F	42-43 F	41-42 F	40-41 F	39-40 F	38-39 F	37-38 F	36-37 F	35-36 F	34-35 F	33-34 F	32-33 F	31-32 F	30-31 F	29-30 F
JUNE AMERDAD	3.53	NIL	0.30	2.74	Nil	1.87	0.78	3.54	1.66	3.57	2.38	0.42	3.03	4.15	4.29	1.30	3.15	0.86	2.80	0.80	0.89	4.66	1.36	2.66	1.81	6.36	2.32	0.06	1.73	0.50	1.23	0.30	2.10	0.90	1.27	1.55	1.46
JULY SHAVER	6.08	3.16	7.52	6.03	0.81	2.97	2.55	3.19	2.29	4.76	1.76	3.93	1.10	1.50	Nil	3.16	1.04	1.49	5.75	1.25	1.45	2.56	5.74	2.30	3.13	1.87	0.42	1.15	2.94	2.63	1.33	2.18	2.67	0.67	1.80	1.30	0.08
AUGUST MEHAR	0.86	6.84	5.80	0.60	0.77	0.75	3.64	3.27	1.56	4.47	6.81	1.69	0.42	3.93	1.23	2.23	3.09	3.21	4.09	0.66	2.05	9.32	0.67	11.52	6.72	Nil	5.47	0.48	3.88	1.43	Nil	2.87	5.47	0.35	2.50	4.53	4.60
SEPTEMBER AVIN	5.09	8.48	1.11	5.17	0.65	5.77	4.00	10.27	4.22	2.36	4.20	2.08	11.27	4.26	2.44	8.26	4.63	5.78	7.59	9.34	7.15	5.13	Nil	1.62	2.87	12.64	4.21	10.08	4.06	6.21	6.27	4.25	6.10	6.47	0.64	1.34	6.31
OCTOBER. AUZUR	4.15	4.01	1.19	7.03	0.99	3.08	4.06	6.92	3.51	2.97	1.80	2.25	6.60	3.92	1.49	0.20	5.58	7.58	0.15	2.35	0.33	9.03	4.48	4.63	4.69	0.79	4.23	1.30	2.96	2.38	2.37	2.09	0.7	—	2.18	13.4	2.27
NEVEMBER DAI	3.17	0.45	Nil	Nil	Nil	0.98	2.67	0.32	1.30	Nil	5.30	0.03	Nil	Nil	Nil	0.68	0.15	0.32	0.48	Nil	3.79	Nil	Nil	2.60	5.62	0.69	Nil	1.66	0.47	8.59	—	1.90	—	—	1.81	Nil	Nil
DECEMBER. BHAMAN.		Nil	—	—	0.49	Nil	Nil	Nil	Nil	.11	Nil	Nil	—	—	0.75	0.15	Nil	Nil	Nil	0.18	Nil	Nil	—	0.33	Nil	0.16	—	—	—	—	0.50	0.54	—	—	0.8	—
JANUARY. ISFANDAR		—	—	—	Nil	—	—	—	—	—	0.22	—	—	—	Nil	—	0.74	—	—	—	—	0.44	Nil	—	Nil	—	—	—	—	—	1.50	1.5	0.24	—	—	0.1
FEBRUARY FERVERDAY		—	—	—	—	—	—	1.13	—	—	0.23	0.03	—	—	0.20	Nil	Nil	—	—	—	0.36	—	Nil	—	—	—	—	—	—	1.35	—	—	—	0.63	Rainless Year	—
MARCH. ARDIBAHIST		—	0.63	—	—	—	0.28	0.28	Nil	0.55	0.04	Nil	—	—	1.25	0.18	—	—	0.22	3.20	2.76	0.60	2.31	—	—	—	—	—	—	0.35	—	—	—	0.62	0.66	0.45	—
APRIL. KHURDAD		1.04	3.70	0.50	1.52	—	Nil	0.76	—	4.60	0.18	0.45	0.18	0.62	1.77	1.36	0.51	1.18	0.41	1.10	2.97	0.60	Nil	1.60	1.00	0.52	0.44	—	1.93 0.40	0.20	—	0.46 1.32	1.33	—	—	—	1.58
MAY. TIR.		0.45	3.45	4.33	Nil	2.54	0.22 1.75	0.45 0.81	0.40 0.55	0.15 1.29	8.00	2.05	1.20 0.17	3.02 0.20	5.73 1.98	0.27	4.53	Nil	0.76	0.26 0.50	0.90 2.73	0.90 0.40	Nil	1.20 2.34	0.80 1.25	4.56	1.10	0.94	1.95	1.60	0.92	0.77	0.55	1.86	2.00	0.66	0.80
TOTAL OF THE YEAR		26.43	23.86	38.00	13.23	23.22	19.75	30.66	16.10	24.15	24.88	12.53	23.97	31.40	19.15	17.79	23.42	20.47	22.74	19.64	23.38	31.20	15.08													

KANAK MALA PROJECT - RAICHUR DISTRICT.

This project is included in II Five Year Plan, proposed to Irrigate about 3100 acres. Kanak Mala vises from the hill range of Shavargira in Mushtagi Taluk near Gudur village and flows towards east and crossing Lingasugur, Gangawathi road in mile 26 and joins in Hanoor stream in its 36th mile. The catchment area is all hilly an hence classified as good. The total cost of the dam is 15.50 lakhs.

This scheme consists of the construction of a reservoir just above Malapur village (This site was selected by Chief Engineer, Major Irrigation North in the last week of February 1957 during his inspection The C.A. is 74 Sq. miles which gives are yield of 318.94 M.C.F.T. out of which 256.00 M.C.F.T. will be utilised for irrigation as under according to the cropping scheme fixed by Chief Engineer, Major Irrigation North.

Abi	250 acres.	at 0.20	-	50.00
Khariff	1600 "	at 0.06	-	96.00
Rabi.	1000 "	at 0.09	-	90.00
Gardon	260 "	at 0.08	-	20.00
	3100 "			256.00 M.C.F.T.

The maximum discharge is calcuated by Dyve's formule the main value of C = 1000 and works out to 17630 cusecs. It is proposed to dispose the surplus water by an F.O.F. weir of 660' length with 4' head from the right flank saddle.

The construction of this project will benefit 5 villages of Malapur, Bommenahalli, Ratnapur, Somknal and Gunda which are all scarcity area

The selient feature are as follows.

Situation.	Long 76° 27' 30" Lat 15° 51' 0"
Catchment area.	74 Sq. miles (free)
Avg. annual rain fall.	16.60"
Yield per Sq. miles.	4.31 M.C.F.T.
Total Yield .	318.94 "
F.R.L.	+1611.00
M.W.L.	+1615.00
T.B.L.	+1618.00 +1620.00
Sill of sluice.	+1594.00
Capacity of reservoir at F.R.L.	223.852 M.C.F.T.
Capacity of sill Reservoir.	21.08 "
Net capacity.	202.80 "
Percentage of net capacity to total yeild.	63.57 %
Percentage of available yield to total yield.	85.89 %
Available yield.	273.938 M.C.F.T.
Maximum discharge(as per Dyves-formule C-1000)	17630 cusecs.
Length of F.O.F. weir.	660 ft.
Bed fall of stream.	1-in 250
Total cost of the project.	15.50 lakhs.
Area of submergence.	476.50 acres.
Percentage of return.	1.22 %

YGR.

G.W.O. [illegible] P.L.

A. T.W.

Sub-Head (1)	[illegible] work.	Rs. 7,10,000
Sub-Head.(2)	F.O.F. weir.	Rs. 56,000
Sub-Head (3)	Sluice. L.S.	Rs. 15,000
Canal 0 to 50 acres.		Rs. 1,55,000
		Rs. 9,36,000

B. Miscellaneous.

Land compensation (10 acres.	Rs. 2,00,000
Thoroughfare road 4 miles (from Pullur village to main road.	Rs. 60,000
Taluchuru-Kirugur Division.	Rs. 60,000
Camp Building.	Rs. 25,000
Tools and Plants.	Rs. 53,000
7½% Establishment charges.	Rs. 98,000
Audit charges.	Rs. 6,000
Contingencies 5%	Rs. 64,000
L.S. Under Chief Engineer's control for unforeseen if any.	Rs. 40,000
Total.	Rs.15,50,000

∴ Cost per acre $\frac{15,50,000}{3,100}$ = Rs. 500 per acre.

sd/-

[illegible]

[illegible]

[illegible] [illegible] [illegible] [illegible].

1. Average monsoon rain fall. 16.60"

2. C - Maximum discharge - C.I. 2/3
   - 1000.74 2/3
   - 17630 cusecs.

3. Surplus.

   C.I.P. weir with 4' head c/st. length - 26.65

   Length required - $\frac{17630}{26.65}$ - 660'

4. Available yield.

   Nature of catchment is good.

   Yield per sq. mile - 4.31 MCFT.

   Total yield - 74mb.31
   - 318.94 MCFT.

5. Obligation.

Rbi	- 250 acres	at 0.20 MCFT.	50.00
Kharif.	-1600 "	at 0.06 "	96.00
Rabi.	1000 "	at 0.09 "	90.00
Garden	250 "	at 0.08 "	20.00
	3100 "		256.00 MCFT.

6. Capacity is selected at + 1616.00 i.e. F.R.L. giving a capacity of 225.02 MCFT.

   Taking sill level at + 1594.00

   The dead storage will be 21.08 MCFT.

   Percentage of capacity to total yield - 63.57 %

   Percentage of available yield to total yield. 85.69 %

   ∴ Available yield - 273.438 MCFT. (where as the actual utilisation is 256 MCFT.)

Note:-

The rain fall records are attached herewith.

YCR.

16/6/1931 TIR.							1.75	0.81	0.55	1.29				0.17	0.20	1.98																				
TOTAL OF THE YEAR		26.43	23.86	28.00	13.23	23.22	19.75	30.66	16.10	24.15	21.88	12.53	23.97	21.40	19.15	17.79	23.42	20.42	22.74	19.64	23.38	31.20	15.00	30.20	27.89	27.55	18.19	16.69	20.17	18.79	12.12	18.14	19.16	13.05	13.28		17.20
TOTAL FOR MANSOON.	19.69	22.54	16.00	23.17	11.22	14.44	15.03	27.19	13.24	18.06	16.95	11.17	22.42	17.76	9.45	15.23	17.49	18.92	19.96	14.40	11.74	28.70	12.25	22.73	19.21	21.60	16.65	13.08	16.37	13.15	11.20	11.69	16.12	10.29	8.39	22.12	14.72

TRUE COPY
SD/-
S.D.O. CANAL SURVEY
DIVISION YERMARS.

SD/-
THASILDAR.
KUSHTAGI.

Received with Tahsildar's letter No 1915 dt 2-12-

MONTHLY RAIN FALL RECORDS OF RAINGAUGE SITUATED IN THE PREMISES OF TAHSIL OFFICE KUSHTAGI TALUQ RAICHUR DISTRICT FROM 1956-57 AD TO 1329-30 FASLI = 37 YEARS.

MONTHLY RAIN FALL DURING THE RESPECTIVE YEARS.

Months	1956-57 A.D	55-56 A.D	54-55 A.D	53-54 A.D	52-53 A.D	51-52 A.D	50-51 A.D	49-50 A.D 58-59 F	48-49 A.D 57-58 F	47-48 A.D 56-57 F	46-47 A.D. 55-56 F	13 54-55 FASLI	53-54 F	52-53 F	51-52 F	50-51 F	49-50 F	48-49 F	47-48 F	46-47 F	45-46 F	44-45 F	43-44 F	42-43 F	41-42 F	40-41 F	39-40 F	38-39 F	37-38 F	36-37 F	35-36 F	34-35 F	33-34 F	32-33 F	31-32 F	30-31 F	29-30 F
JUNE AMBADA	3.53	NIL	0.38	2.74	Nil	1.87	0.78	3.54	1.66	3.57	2.30	0.42	3.03	4.15	4.29	1.30	3.15	0.86	2.80	0.80	0.89	4.66	1.36	2.66	1.81	6.36	2.32	0.06	1.73	0.50	1.23	0.30	2.18	0.90	1.27	1.55	1.11
JULY SHRAVAN	6.08	3.16	7.52	6.83	0.81	2.97	2.55	3.19	2.29	4.70	1.76	3.03	1.10	1.50	Nil	3.16	1.04	1.49	5.73	1.25	1.45	2.56	5.74	2.30	3.13	1.87	0.42	1.15	2.84	2.63	1.33	2.18	2.67	2.57	1.82	1.30	0.11
AUGUST NUNAN	0.86	6.84	5.80	0.60	0.77	0.75	3.64	3.27	1.56	4.47	6.81	1.69	0.42	3.93	1.23	2.23	3.09	3.21	4.09	0.66	2.05	9.32	0.67	11.52	6.72	Nil	5.47	0.48	3.88	1.43	Nil	2.87	5.47	0.35	2.50	4.55	4.10
SEPTEMBER AVIN	5.09	8.48	1.11	5.17	0.65	5.77	4.00	10.27	4.22	2.36	4.20	2.68	11.27	4.26	2.44	8.26	4.63	5.78	7.59	9.34	7.15	5.13	Nil	1.62	2.87	12.64	4.21	10.05	4.66	6.21	6.27	4.25	5.10	6.47	9.64	1.54	6.31
OCTOBER AUZUR	4.15	4.01	1.19	7.83	8.99	3.08	4.06	6.92	3.51	2.97	1.80	2.25	6.60	3.72	1.49	0.20	5.58	7.58	0.15	2.35	0.33	9.03	4.48	4.63	4.69	0.79	4.23	1.30	2.96	2.38	2.37	2.09	0.7	—	2.18	13.4	2.27
NEVEMBER DAI	3.19	0.45	Nil	Nil	Nil	0.98	2.47	0.32	1.30	Nil	5.30	0.83	Nil	Nil	Nil	0.68	0.15	0.32	0.48	Nil	3.79	Nil	Nil	2.60	5.62	0.69	Nil	1.66	0.47	2.59	—	1.90	—	—	1.81	Nil	Nil
DECEMBER BHAMAN		Nil	—	—	0.49	Nil	Nil	Nil	Nil	"	Nil	Nil	—	—	0.75	0.15	Nil	Nil	Nil	0.18	Nil	Nil	—	0.33	Nil	0.15	—	—	—	—	—	0.50	0.54	—	—	0.8	—
JANUARY ISKANDAR	—	—	—	—	Nil	—	—	—	—	—	0.22	—	—	—	Nil	—	0.74	—	—	—	—	—	0.44	Nil	—	Nil	—	—	—	—	—	1.50	1.45	0.24	—	—	0.1
FEBRUARY FERVERDAY		—	—	—	—	—	—	1.13	—	—	0.23	0.03	—	—	0.20	Nil	Nil	—	—	—	0.36	—	Nil	—	—	—	—	—	—	1.35	—	—	—	0.63	—	—
MARCH ARDIBAHIST	—	—	0.63	—	—	—	0.28	0.28	Nil	0.55	0.04	Nil	—	—	1.25	0.18	—	—	0.22	3.20	2.76	0.60	2.31	—	—	—	—	—	0.35	—	—	—	0.62	0.66	0.45	—
APRIL KHURDAD		1.04	3.78	0.50	1.52	—	Nil	0.76	—	4.60	0.18	0.45	0.18	0.62	1.77	1.36	0.51	1.18	0.41	1.10	2.97	0.60	Nil	1.60	1.00	0.63	0.44	—	1.93 0.40	0.20	—	0.46 1.32	1.33	—	—	Registers not Legible Condition	1.55
MAY ISFANDIAR																																				

GENERAL ABSTRACT OF KANAL NALA.

A. W o r k.

			Rs.
Sub-Head (1)	Earth work.	...	7,10,000
Sub-Head(2)	P.C.F. weir.	...	66,000
Sub-Head (3)	Sluice L.S.	...	15,000
Canal @ Rs. 50/acres			1,55,000
			9,36,000 or -
			- 9.36 Lakh

B. Miscellaneous.

Land compensation, 640 acres.		....	2.00,000
Approach road 4 miles (from Kunjur village to Jurad road)			80,000
Kalchur - Ujjaipur Minor.	...	....	60,000
Camp buildings.	...	...	20,000
Tools and Plants.	...	...	32,000
Establishment charges.	...	....	08,000
Audit charges @	...	...	6,000
Contingencies, 5%	...	...	64,000
Extra over Chi. Engineer's control for Minor on 11 mls.	...		49,000
		Total Rs:-	15,50,000

for acre $\frac{15,50,000}{3,100}$ = Rs.500/acre

Sd/-

Chief Engineer, P.W.D.;
Major Irrigation (North)
MUNIRABAD.

KANAK NALA PROJECT - RAICHUR DISTRICT.

This project is included in II Five Year Plan, proposed to irrigate about 3100 acres. Kanak Nala rises from the hill range of Thawargira in Kushtagi Taluk near Gudur village and flows towards east and crossing Lingasgur, Gangawati road in mile 26 and joins Sindhnoor stream in its 36th mile. The catchment area is all hilly and hence classified as good. The total cost of the dam is 15.50 lakhs.

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Rabi	1000 "	at 0.09	90.00
Garden.	250 "	at 0.08	20.00
	3100 "		256.00 Mcft.

The maximum discharge is calculated by Ryve's formula wherein value of Chx C.= 1000 and works out to 17630 cusecs. It is proposed to dispose the surplus water by an F.O.F. weir of 660' length with 4' head from the right flank saddle.

The construction of this project will benefit 5 villages of Malapur, Bommanhalli, Hatnapur, Gonkinal and Gunda which are all scarcity areas.

The salient features are as follows.

Situation.	Long. 76° 27 ' 30"
	Lat., 15 51 ' 0"
Catchment area.	= 74 Sq. miles (free)
Yield per inch rain-fall.	= 16.60"
Total yield.	= 4.31 Mcft
F. T. L.	=318.94
L. W. L.	+1611.00
T. M. L.	+1615.00
T. D. L.	+1616.00
Sill of sluice.	+1620.00
	+1594.00

Capacity of reservoir at F.T.L. - 229.852 Mcft

(Contd: ..2

[redacted]acity at sill of reservoir.	= 21.08 Mcft
[redacted]et capacity.	=202.80 "
Percentage of net capacity to total yield.	= 63.57 %
Percentage of available yield to total yield.	= 85.89 %
Available yield.	=273.938 Mcft.
Maximum discharge (as per Ryves formula, C-1000)	=17630 Cusecs.
Length of F.O.F. weir.	= 660 ft.
Bed fall of stream.	= 1 in 25(
Total cost of the Project.	= 15.50 Lakhs.
Area of submergence.	= 476.50 Acres
Percentage of return.	= 1.22 %

HYDRALOGY DETAILS OF KANAK NALA PROJECT.

1. Average monsoon rain-fall. = 16.60"

2. Q = maximum discharge = C M. 2/3

$= 1000.74^{2/3}$

= 17630 Cusecs.

3. Surplus.

F.O.F. weir with 4' head, Q / ft. length = 26.66.

Length required = $\frac{17630}{26.66}$ = 660'

4. Available yield.

Nature of catchment is good.

ield per Sq. mile = 4.31 Mcft.

otal yield = 74 x 4.31

= 318.94 Mcft.

5. Utilisation.

A b i -	250 acres at 0.20 Mcft	...	50.00
Kharif.-	1600 acres at 0.06 "	...	96.00
R a bi.	1000 acres at 0.09 "	...	90.00
Garden. -	250 acres at 0.08 "	...	20.00
	3100 acres.		256. 00 Mcft.

6. Capacity is selected at + 1616.00 ie, F.R.L. giving a capacity of 225.82 Mcft.

Taking sill level at + 1595.00

The dead storage will be 21.08 Mcft.

Percentage of capacity to total yield = 68.57

Percentage of available yield to total yield .8580

vailable yield = 273.833 Mcft (where s the actual utilisation is 256 Mcft)

N o t e:-

The rain-fall records are attached herewith.